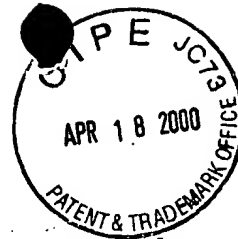


DECLARATION FOR PATENT APPLICATION



#3

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled LOW LATENCY MULTI-LEVEL COMMUNICATION INTERFACE, the specification of which

(check one) _____ is attached hereto.

X was filed on January 6, 2000 as
Application Serial No. 09/478,916
and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

60/158,189 10/19/99
(Application Serial No.) (Filing Date)

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulation, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.) (Filing Date) (Status)
(patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status)
(patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status)
patented, pending, abandoned)

Direct all telephone calls to Gary S. Williams at (650) 493-4935.

Address all correspondence to:

PENNIE & EDMONDS LLP
3300 Hillview Avenue
Palo Alto, California 94304

File No. 9797-050-999

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of

first inventor:

JARED L. ZERBE

Inventor's signature:

Jared L. Zerbe

Date:

3/13/00

Residence:

WOODSIDE, CALIFORNIA

Citizenship:

U.S.A.

Post Office Address:

431 HILLSIDE DRIVE

WOODSIDE, CALIFORNIA 94062

Full name of
second inventor: BRUNO W. GARLEPP
Inventor's signature: *Bruno W. Garlepp*
Date: 3/3/00
Residence: Austin, Texas
Citizenship: U.S.A.
Post Office Address: 10613 REDMOND ROAD
AUSTIN, TEXAS 79739

Full name of
third inventor: PAK S. CHAU
Inventor's signature: _____
Date: _____
Residence: SAN JOSE, CALIFORNIA
Citizenship: HONG KONG
Post Office Address: 1677 KLIPSPRINGER DRIVE
SAN JOSE, CALIFORNIA 95124

Full name of
fourth inventor: KEVIN S. DONNELLY
Inventor's signature: _____
Date: _____
Residence: LOS ALTOS, CALIFORNIA
Citizenship: U.S.A.
Post Office Address: 585 GIRALDA DRIVE
LOS ALTOS, CALIFORNIA 94024

Full name of
second inventor: BRUNO W. GARLEPP

Inventor's signature: _____

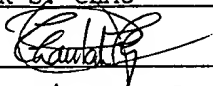
Date: _____

Residence: Austin, Texas

Citizenship: U.S.A.

Post Office Address: 10613 REDMOND ROAD
AUSTIN, TEXAS 79739

Full name of
third inventor: PAK S. CHAU

Inventor's signature: 

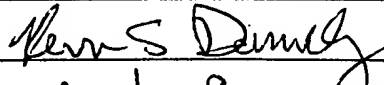
Date: March 9, 2000

Residence: SAN JOSE, CALIFORNIA

Citizenship: HONG KONG

Post Office Address: 1677 KLIPSPRINGER DRIVE
SAN JOSE, CALIFORNIA 95124

Full name of
fourth inventor: KEVIN S. DONNELLY

Inventor's signature: 

Date: March 9, 2000

Residence: LOS ALTOS, CALIFORNIA

Citizenship: U.S.A.

Post Office Address: 585 GIRALDA DRIVE
LOS ALTOS, CALIFORNIA 94024

Full name of
fifth inventor: MARK A. HOROWITZ

Inventor's signature: MAH Horowitz

Date: 3/31/00

Residence: MENLO PARK, CALIFORNIA

Citizenship: U.S.A.

Post Office Address: 1309 SAN MATEO DRIVE
MENLO PARK, CALIFORNIA 94025

Full name of
sixth inventor: STEFANOS SIDIROPOULOS

Inventor's signature: [Signature]

Date: 9/3/2000

Residence: PALO ALTO, CALIFORNIA

Citizenship: GREECE

Post Office Address: 731 ELLSWORTH STREET
PALO ALTO, CALIFORNIA 94036

Full name of
seventh inventor: BILLY W. GARRETT, JR.

Inventor's signature: B. W. Garrett Jr

Date: 3/9/00

Residence: MOUNTAIN VIEW, CALIFORNIA

Citizenship: U.S.A.

Post Office Address: 928 WRIGHT AVENUE, #405
MOUNTAIN VIEW, CALIFORNIA 94043

Full name of

eighth inventor:

CARL W. WERNER

Inventor's signature:

Carl W. Werner

Date:

3/9/00

Residence:

SAN JOSE, CALIFORNIA

Citizenship:

U.S.A.

Post Office Address:

1449 CARRINGTON CIRCLE

SAN JOSE, CALIFORNIA 95125

POWER OF ATTORNEY BY ASSIGNEE
AND CERTIFICATE UNDER 37 CFR 3.73(b)

To the Commissioner of Patents:

The undersigned assignee of the entire interest in application for letters patent entitled: LOW LATENCY MULTI-LEVEL COMMUNICATION INTERFACE, and having the named inventors: JARED L. ZERBE, BRUNO W. GARLEPP, PAK S. CHAU, KEVIN S. DONNELLY, MARK A. HOROWITZ, STEFANOS SIDIROPOULOS, BILLY W. GARRETT, JR., and CARL W. WERNER, hereby revokes all previous Powers of record and appoints the following attorneys to transact all business in the Patent Office connected therewith: Leslie Misrock (Reg. No. 18872), Harry C. Jones, III (Reg. No. 20280), Berj A. Terzian (Reg. No. 20060), Gerald J. Flintoft (Reg. No. 20823), David Weild, III (Reg. No. 21094), Jonathan A. Marshall (Reg. No. 24614), Barry D. Rein (Reg. No. 22411), Stanton T. Lawrence, III (Reg. No. 25736), Charles E. McKenney (Reg. No. 22795), Philip T. Shannon (Reg. No. 24278), Francis E. Morris (Reg. No. 24615), Charles E. Miller (Reg. No. 24576), Gidon D. Stern (Reg. No. 27469), John J. Lauter, Jr. (Reg. No. 27814), Brian M. Poissant (Reg. No. 28462), Brian D. Coggio (Reg. No. 27624), Rory J. Radding (Reg. No. 28749), Stephen J. Harbulak (Reg. No. 29166), Donald J. Goodell (Reg. No. 19766), James N. Palik (Reg. No. 25510), Thomas E. Friebe (Reg. No. 29258), Laura A. Coruzzi (Reg. No. 30742), Jennifer Gordon (Reg. No. 30753), Jon R. Stark (Reg. No. 30111), Allan A. Fanucci (Reg. No. 30256), Geraldine S F. Baldwin (Reg. No. 31232), Victor N. Balancia (Reg. No. 31231), Samuel B. Abrams (Reg. No. 30605), Steven I. Wallach (Reg. No. 35402), Marcia H. Sundeen (Reg. No. 30893), Paul J. Zegger (Reg. No. 33821), Edmond R. Bannon (Reg. No. 32110), Bruce J. Barker (Reg. No. 33291), Adriane M. Antler (Reg. No. 32605), Thomas G. Rowan (Reg. No. 34419), James G. Markey (Reg. No. 31636), Thomas D. Kohler (Reg. No. 32797), Scott D. Stimpson (Reg. No. 33607), Gary S. Williams (Reg. No. 31066), William S. Galliani (Reg. No. 33885), Ann L. Gisolfi (Reg. No. 31956), Todd A. Wagner (Reg. No. 35399), Scott B. Familant (Reg. No. 35504), and Kelly D. Talcott (Reg. No. 39582), and, all of Pennie & Edmonds LLP, whose addresses are 1155 Avenue of the Americas, New York, New York 10036, 1667 K Street N.W., Washington, DC 20006 and 3300 Hillview Avenue, Palo Alto, CA 94304, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

In addition, the undersigned assignee also appoints Charles E. Shemwell (Reg. No. 40,171), of Rambus Inc., to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

In accordance with 37 CFR 3.73 the assignee hereby certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an Assignment from the inventor(s). The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified below.

The undersigned hereby declares that all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Direct all telephone calls to GARY S. WILLIAMS at (650) 493-4935.

Address all correspondence to: PENNIE & EDMONDS LLP
3300 Hillview Avenue
Palo Alto, California 94304

RAMBUS INC.

By: Charles E. Shemwell

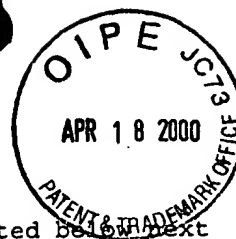
Signature: 

Title: Patent Counsel

Address: 2465 Latham Street
Mountain View, CA 94040

Date: April 3, 2000
File No. 9797-0050-999 (RA139)

DECLARATION FOR PATENT APPLICATION



As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled LOW LATENCY MULTI-LEVEL COMMUNICATION INTERFACE, the specification of which

(check one) _____ is attached hereto.

X was filed on January 6, 2000 as
Application Serial No. 09/478,916
and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

<u>60/158,189</u>	<u>10/19/99</u>
(Application Serial No.)	(Filing Date)

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)	Priority Claimed
------------------------------	------------------

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulation, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.) (Filing Date) (Status)
(patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status)
(patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status)
patented, pending, abandoned)

Direct all telephone calls to Gary S. Williams at (650) 493-4935.

Address all correspondence to:

PENNIE & EDMONDS LLP
3300 Hillview Avenue
Palo Alto, California 94304

File No. 9797-050-999

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of

first inventor: JARED L. ZERBE

Inventor's signature: _____

Date: _____

Residence: WOODSIDE, CALIFORNIA

Citizenship: U.S.A.

Post Office Address: 431 HILLSIDE DRIVE

WOODSIDE, CALIFORNIA 94062

Full name of
fifth inventor: MARK A. HOROWITZ

Inventor's signature: _____

Date: _____

Residence: MENLO PARK, CALIFORNIA

Citizenship: U.S.A.

Post Office Address: 1309 SAN MATEO DRIVE
MENLO PARK, CALIFORNIA 94025

Full name of
sixth inventor: STEFANOS SIDIROPOULOS

Inventor's signature: _____

Date: _____

Residence: PALO ALTO, CALIFORNIA

Citizenship: GREECE

Post Office Address: 731 ELLSWORTH STREET
PALO ALTO, CALIFORNIA 94036

Full name of
seventh inventor: BILLY W. GARRETT, JR.

Inventor's signature: _____

Date: _____

Residence: MOUNTAIN VIEW, CALIFORNIA

Citizenship: U.S.A.

Post Office Address: 928 WRIGHT AVENUE, #405
MOUNTAIN VIEW, CALIFORNIA 94043

Full name of
eighth inventor: CARL W. WERNER

Inventor's signature: _____

Date: _____

Residence: SAN JOSE, CALIFORNIA

Citizenship: U.S.A.

Post Office Address: 1449 CARRINGTON CIRCLE
SAN JOSE, CALIFORNIA 95125

ASSIGNMENT

JOINT

WHEREAS, WE, Jared L. Zerbe, a resident of Woodside, California, citizen of the United States; Bruno W. Garlepp, a resident of Austin, Texas, citizen of the United States; Pak S. Chau, a resident of San Jose, California, citizen of Hong Kong; Kevin S. Donnelly, a resident of Los Altos, California, citizen of the United States; Mark A. Horowitz, a resident of Menlo Park, California, citizen of the United States; Stefanos Sidiropoulos, a resident of Palo Alto, California, citizen of Greece; Billy W. Garrett, a resident of Mountain View, California, citizen of the United States; and Carl W. Werner, a resident of San Jose, California, citizen of the United States; (hereinafter "ASSIGNORS"), have invented certain new and useful improvements in **LOW LATENCY MULTI-LEVEL COMMUNICATION INTERFACE** having executed concurrently herewith an application for a United States patent disclosing and identifying the invention; which is identified by Pennie & Edmonds LLP docket no. 9797-0050-999; and

WHEREAS, **RAMBUS INC.**, a Delaware Corporation located in Mountain View, California 94040, (hereinafter "ASSIGNEE") is desirous of obtaining our entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries. to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said application for U.S. Letters Patent, and any and all divisions, continuations and renewals thereof, and any and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

The terms, covenants and conditions of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding on said Inventors, their heirs, legal representatives and assigns.

IN TESTIMONY WHEREOF, said Inventors have executed and delivered this instrument to said Assignee the day and year below written.

1.

JARED L. ZERBE

State of California

County of _____

)
) SS.:
)

On _____ before me, _____, personally appeared JARED L. ZERBE, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

2.

BRUNO W. GARLEPP

State of California

County of _____

)
) SS.:
)

On _____ before me, _____, personally appeared BRUNO W. GARLEPP, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

3.

PAK S. CHAU

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared PAK S. CHAU, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

4.

KEVIN S. DONNELLY

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared KEVIN S. DONNELLY, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

5.

MARK A. HOROWITZ

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared MARK A. HOROWITZ, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

6.

STEFANOS SIDIROPOULOS

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared STEFANOS SIDIROPOULOS, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

7.

BILLY W. GARRETT

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared BILLY W. GARRETT, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

8.

CARL W. WERNER

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared CARL W. WERNER, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)